BODY & TRIM

SECTION BT

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Service Notice

NBBT0001

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- G
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to soil or damage them.
- MA

- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

LC

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER" used along with a seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. The SRS system composition which is available to INFINITI QX4 is as follows:

EC

- For a frontal collision
 - The Supplemental Restraint System consists of driver air bag module (located in the center of the steering wheel), front passenger air bag module (located on the instrument panel on passenger side), seat belt pre-tensioners, a diagnosis sensor unit, warning lamp, wiring harness and spiral cable.

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- For a side collision
 - The Supplemental Restraint System consists of side air bag module (located in the outer side of front seat), satellite sensor, diagnosis sensor unit (one of components of air bags for a frontal collision), wiring harness, warning lamp (one of components of air bags for a frontal collision).



Information necessary to service the system safely is included in the RS section of this Service Manual.

PD

WARNING:

 To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized INFINITI dealer.

AX

 Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the RS section.

SU

 Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified with yellow harness connector (and with yellow harness protector or yellow insulation tape before the harness connectors).

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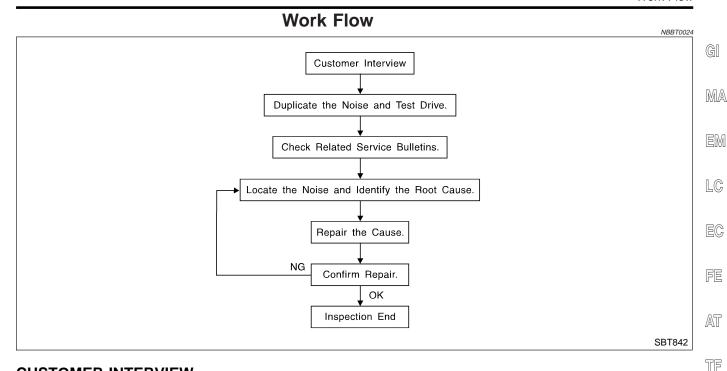
RS

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Special Service Tools NBBT0022 The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here. Tool number (Kent-Moore No.) Description Tool name Locating the noise (J-39570) Chassis ear SBT839 Repairing the cause of noise (J-43980) Nissan Squeak and Rattle SBT840 **Commercial Service Tools** NBBT0023 Tool name Description Engine ear Locating the noise



CUSTOMER INTERVIEW

Interview the customer, if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to BT-9. This information is necessary to duplicate the conditions that exist when the noise occurs.

The customer may not be able to provide a detailed description or the location of the noise. Attempt to

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- obtain all the facts and conditions that exist when the noise occurs (or does not occur). If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer
- is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak (Like tennis shoes on a clean floor) Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak (Like walking on an old wooden floor) Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle (Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock (Like a knock on a door) Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick (Like a clock second hand) Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump (Heavy, muffled knock noise) Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz (Like a bumble bee)
- Buzz characteristics include high frequency rattle/firm contact. Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

Work Flow (Cont'd)

DUPLICATE THE NOISE AND TEST DRIVE

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If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
- 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

BT0024S03

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

NBBT0024S04

- 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- removing the components in the area that you suspect the noise is coming from.
 - Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- tapping or pushing/pulling the component that you suspect is causing the noise.
 - Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
 - Refer to "Generic Squeak and Rattle Troubleshooting", BT-7.

REPAIR THE CAUSE

NBBT0024S05

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- separate components by repositioning or loosening and retightening the component, if possible.
- insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-43980) is available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged. Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005: 100 x 135 mm (3.94 x 5.31 in)/76884-71L01: 60 x 85 mm (2.36 x 3.35 in)/76884-71L02: 15 x 25 mm (0.59 x 0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick, 50 x 50 mm (1.97 x 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 x 50 mm (1.97 x 1.97 in)

INSULATOR (Light foam block)

Work Flow (Cont'd)

80845-71L00: 30 mm (1.18 in) thick, 30 x 50 mm (1.18 x 1.97 in) FELT CLOTH TAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15 x 25 mm (0.59 x 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE MA Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used in place of UHMW tape that will be visible or not fit. Note: Will only last a few months. SILICONE SPRAY LC Use when grease cannot be applied. DUCT TAPE Use to eliminate movement. EC CONFIRM THE REPAIR Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet. Generic Squeak and Rattle Troubleshooting Refer to Table of Contents for specific component removal and installation information. AT INSTRUMENT PANEL NBBT0025S01 Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel 2. Acrylic lens and combination meter housing Instrument panel to front pillar garnish 4. Instrument panel to windshield Instrument panel mounting pins AX 6. Wiring harnesses behind the combination meter 7. A/C defroster duct and duct joint These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness. **CAUTION:** Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair. **CENTER CONSOLE** NBBT0025S02 Components to pay attention to include: Shifter assembly cover to finisher 2. A/C control unit and cluster lid C 3. Wiring harnesses behind audio and A/C control unit The instrument panel repair and isolation procedures also apply to the center console. **DOORS** NBBT0025S03 Pay attention to the: Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher EL Wiring harnesses tapping 4. Door striker out of alignment causing a popping noise on starts and stops Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from

the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

Generic Squeak and Rattle Troubleshooting (Cont'd)

TRUNK

=NBBT0025S04

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:

- 1. Trunk lid bumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINER

NBBT0025S05

Noises in the sunroof/headliner area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headliner and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

NBBT0025S06

When isolating seat noises it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- Headrest rods and holders
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seat back lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

NRRT0025S

Some interior noises may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noises include:

- Any component mounted to the engine wall
- Components that pass through the engine wall
- Engine wall mounts and connectors
- Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

Diagnostic Worksheet

NBBT0026

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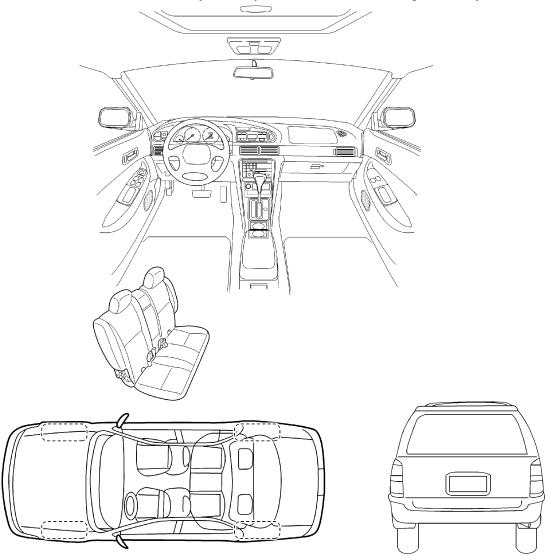
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

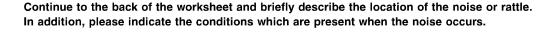
Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your véhicle.





Diagnostic Worksheet (Cont'd)

Briefly describe the location where the noise occurs:					
II.	WHEN DOES IT OCCUP	?? (check the boxe	s that a	pply)	
☐ only	time ime in the morning / when it is cold outside / when it is hot outside	☐ after sitti☐ when it i☐ dry or du☐ other:	s raining isty cond	or wet ditions	
III. V	WHEN DRIVING:	IV. N	WHAT TY	YPE O	F NOISE?
ove only on a common on to with other	☐ through driveways ☐ over rough roads ☐ over speed bumps ☐ only at about mph ☐ on acceleration ☐ coming to a stop ☐ on turns: left, right or either (circle) ☐ with passengers or cargo ☐ after driving miles or minutes ☐ squeak (like tennis shoes on a clean flock creak (like walking on an old wooden flock road (like shaking a baby rattle) ☐ knock (like a knock on a door) ☐ tick (like a clock second hand) ☐ thump (heavy, muffled knock noise) ☐ buzz (like a bumble bee) ☐ with passengers or cargo ☐ after driving miles or minutes				on an old wooden floor) a baby rattle) on a door) cond hand) led knock noise)
TO BE COMPLETED BY DEALERSHIP PERSONNEL Test Drive Notes:					
			YES	<u>NO</u>	Initials of person performing
- Nois - Nois	e test driven with custome se verified on test drive se source located and rep ow up test drive performed	aired	0	000	
VIN: _		Customer Name:			
W.O. #	# :	Date:			

This form must be attached to Work Order

NBBT0003

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Description

- Clips and fasteners in BT section correspond to the following numbers and symbols.
- Replace any clips and/or fasteners which are damaged during removal or installation.

	teplace any clips and/or lasteners which are damaged during removal or installation.			
Symbol No.	Shapes	Removal & Installation		
C101	SBF302	Removal: Remove by bending up with flat-bladed screwdrivers or clip remover. LC SBF367BA		
C103	SBT09	Removal: Remove with a clip remover. SBF423H		
C203	SBF258	Push center pin to catching position. (Do not remove center pin by hitting it.) Push Push Push SU Push SI BR ST SBF708E		
C205	MBT080	Removal: Flat-bladed screwdriver BT Clip Finisher SBF638CA		
CE103	SBF104	Removal:		

Symbol No.	Shapes	Removal & Installation
CE117	SBF174D	Removal: Remove with a flat-bladed screwdriver or pliers. SBF175D
CF109	Clip-A Seal Clip-B (Grommet) SBF651B	Flat-bladed screwdrivers Body panel Clip-A SBF652B
CG101	SBF145B	Removal: Installation: Rotate 45° to remove. Removal: SBF085B
CR103	SBF768B	Removal: Holder portion of clip must be spread out to remove rod. SBF770B
CS101	SBF078B	Removal: 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. SBF992G

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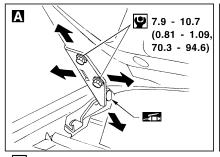
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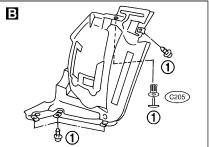
Removal and Installation

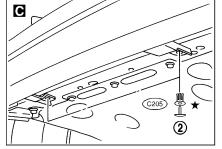
- When removing or installing hood, place a cloth or other padding on front fender panel and cowl top. This
 prevents vehicle body from being scratched.
- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Hood adjustment: Adjust at hinge portion.
- Hood lock adjustment: After adjusting, check hood lock control operation. Apply a coat of grease to hood locks engaging mechanism.
- Hood opener: Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood.

FRONT BUMPER ASSEMBLY

- 1. Remove screws and clips securing left and right sides of front fender protector.
- 2. Remove clips securing bumper fascia to radiator core support lower.
- 3. Remove clips securing radiator grille and remove the radiator grille.
- 4. Remove finisher and bolts securing left and right fog lamps and remove the lamps.
- 5. Remove bolts securing left and right radiator grille and remove the radiator grilles.
- 6. Remove bolts securing license plate bracket and remove the license plate bracket.
- 7. Remove clips securing bumper fascia to bumper reinforcement.
- 8. Remove bolts securing front fender to bumper fascia.
- Extract bumper fascia assembly.
- 10. Remove bolts and nuts securing bumper reinforcement.
- 11. Extract bumper reinforcement.







: N•m (kg-m, in-lb)

★ : Bumper assembly mounting clips

SBT022A

IDX

SEC. 260-261-262-263-620-623-630-650 Hood lock adjustment • Adjust hood so that hood primary lock meshes at a position 1 to 1.5 mm (0.039 to 0.059 in) lower than fender. · After hood lock adjustment, adjust bumper • When securing hood lock, ensure it does not tilt. Striker must be positioned at the center of hood primary lock. · After adjustment, ensure that hood primary and secondary lock operate properly. Hood lock secondary latch hooking length More than 5.0 mm (0.197 in) Hood Secondary latch Hood adjustment A Bumper rubber adjustment · Adjust so that hood is aligned with fender. At that time deflection is approx. 2 mm (0.08 in). [Bumper rubber free height is approx. 13 mm (0.51 in)] 21 - 26 N·m (2.1 - 2.7 kg-m, 15 - 20 ft-lb) Bumper reinforcement Bumper fascia assembly **⑨**Ⅱ 7 **G** ⑧ 🖪 License plate bracket ⑧ 🗓 (11)

SBT023A

 \oplus \blacksquare

Front fender

protector

4D

Fog lamp

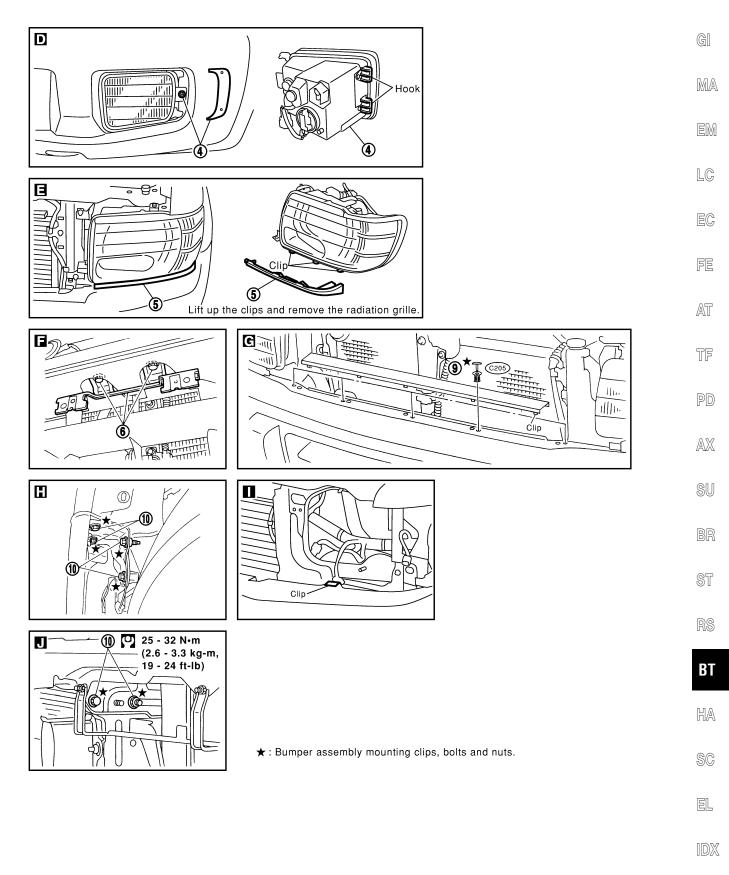
②C

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CG101)

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Radiator grille



SBT024A

Removal and Installation

NIPPTOOO

- Bumper fascia is made of plastic. Do not use excessive force and be sure to keep oil away from it.
- Back door lock system adjustment: Adjust lock & striker so that they are in the center.
 After adjustment, check back door lock operation.
- Back door hatch lock system adjustment: Adjust lock & striker so that they are in the center. After adjustment, check back door hatch lock operation.

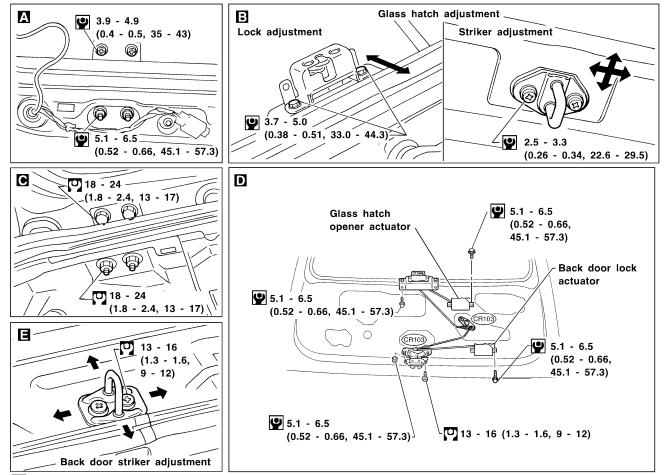
WARNING:

- Be careful not to scratch back door stay and/or back door hatch stay when installing back door and/or back door hatch. A scratched stay may cause gas leakage.
- The contents of the back door stay and back door hatch stay are under pressure. Do not take apart, puncture, apply heat or allow fire near them.

REAR BUMPER ASSEMBLY

NBBT0005S01

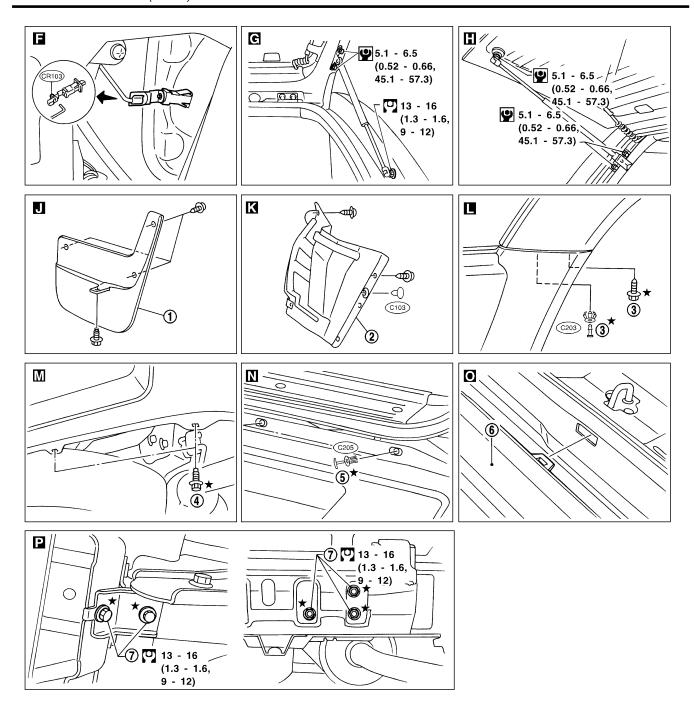
- 1. Remove bolts and screws securing left and right mudguards and remove the mudguards.
- 2. Remove clips and screws securing left and right sides of wheel protector.
- 3. Remove clips and bolts securing left and right rear fenders to bumper fascia.
- Remove bolts securing bumper reinforcement to bumper fascia.
- Remove clips securing bumper fascia.
- 6. Extract bumper fascia assembly.
- 7. Remove bolts and nuts securing bumper reinforcement.
- 8. Extract bumper reinforcement.



∴ N•m (kg-m, in-lb)

: N•m (kg-m, ft-lb)

SEC. 570•767•850•900•905 GI MA Window lock adjustment B EM Window hinge A Door adjustment (Adjust at hingebody portion) LC Back door hatch stay Door lock adjustment D EC Back door panel stay 🕃 FE AT Fuel filler lid opener TF Striker adjustment PD $\mathbb{A}\mathbb{X}$ Wheel protector Bumper reinforcement-SU ③ ■ **2K 5** N BR **①**J OP. ST ③▮ Mudguard **4** M RS **4 M** BT - Bumper fascia assembly HA SC EL SBT716



 \bigstar : Bumper assembly mounting bolts, nuts and clips

: N•m (kg-m, in-lb)
: N•m (kg-m, ft-lb)

Overhaul

NBBT0006

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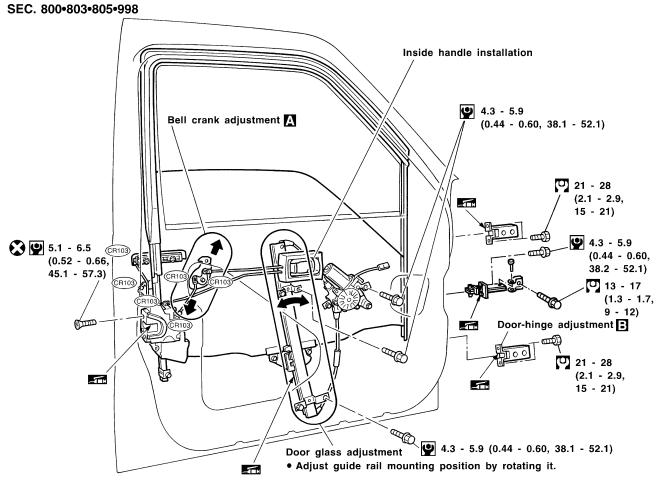
BT

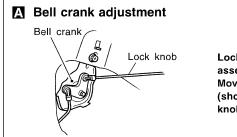
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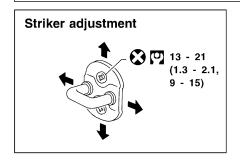
- For removal of door trim, refer to "DOOR TRIM" (BT-31).
- After adjusting door or door lock, check door lock operation.





Lock door after setting door lock assembly and inside handle in position. Move bell crank in direction of arrow (shown in figure at left) to take up knob free play, and secure with bolts.





: N•m (kg-m, in-lb)
: N•m (kg-m, ft-lb)

SBT512-B

Front Door Limit Switch Reset RESET CONDITIONS

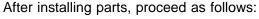
NBBT0027

After each of the following operations are performed, reset the limit switch (with built-in motor).

- Regulator removal and installation
- Removal of motor from regulator
- Operation of regulator as a single unit
- Door glass removal and installation
- Glass run removal and installation

RESET PROCEDURES

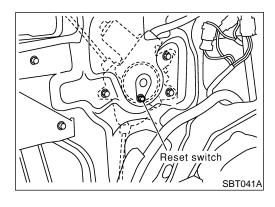
NBBT0027S02



- 1. Close the door window completely.
- 2. Press the reset switch and open the door window completely.
- Release the reset switch. After making sure the reset switch has returned to the original position, close the door window completely.
- 4. The limit switch is now reset.

CAUTION:

Be sure to manually open or close the door window. (Do not use the automatic open-close procedures.)

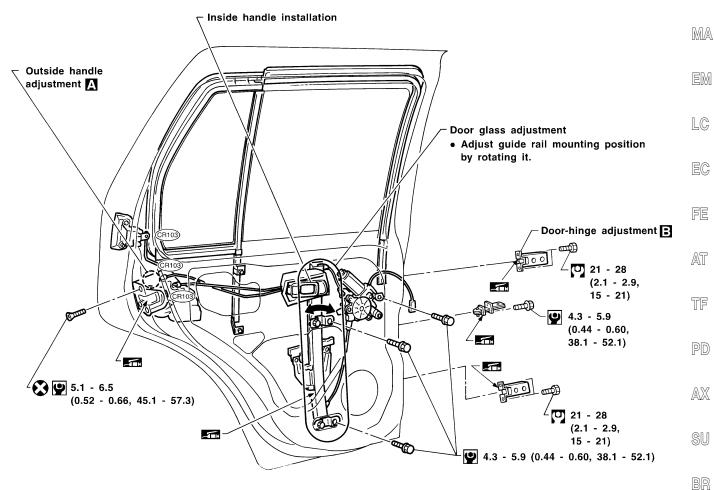


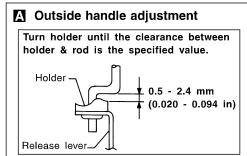
Overhaul

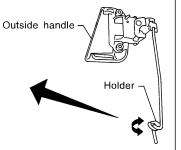
NBBT0007

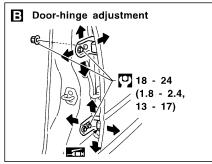
GI

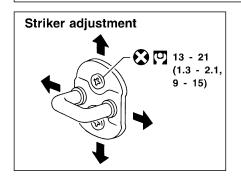












: N•m (kg-m, in-lb)

N•m (kg-m, ft-lb)

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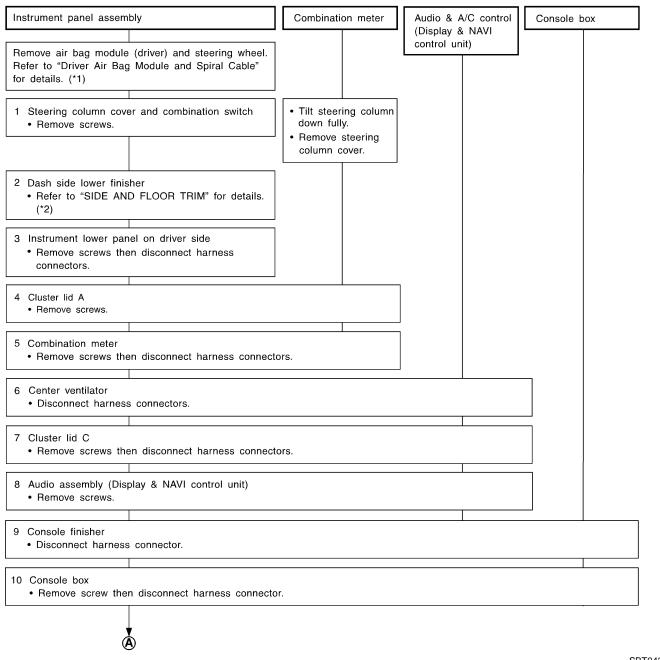
EL

Removal and Installation

CAUTION:

NBBT0008

- Disconnect both battery cables in advance.
- Disconnect air bag system line in advance.
- Never tamper with or force air bag lid open, as this may adversely affect air bag performance.
- Be careful not to scratch pad and other parts.



SBT042A

*1 RS-17

*2 BT-29

11 Glove box • Remove clips. 12 Instrument finisher · Remove screws. 13 Instrument lower panel on passenger side · Remove screws then disconnect harness • Then remove passenger air bag module bracket. Refer to "Front Passenger Air Bag Module" for details. (*3) 14 Defroster grille • Disconnect herness connectors. 15 Instrument mask • Disconnect herness connectors. 16 Front pillar garnish • Refer to "SIDE AND FLOOR TRIM" for details. (*2) 17 Instrument panel and pads · Remove bolts and nuts. • Then disconnect GPS antenna connector. 18 Passenger air bag module Refer to "Front Passenge Air Bag Module" for details. (*3)

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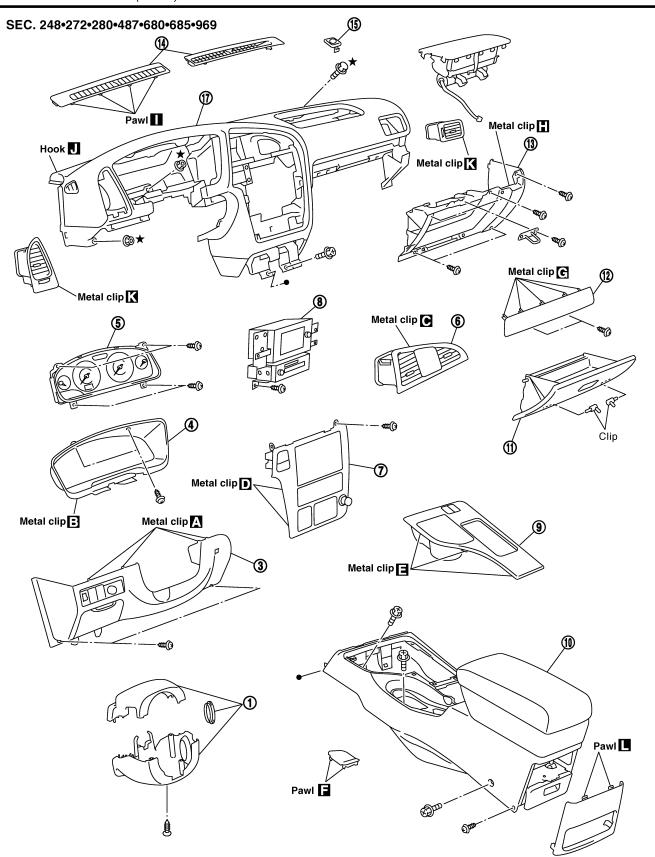
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*2 BT-29 *3 RS-20



★: Instrument panel assembly mounting bolts & nuts

SBT038A

INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)

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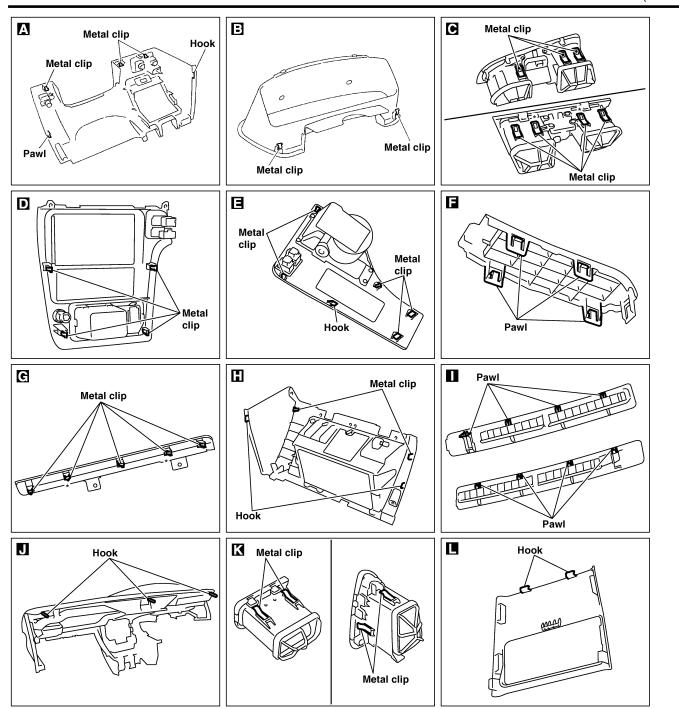
RS

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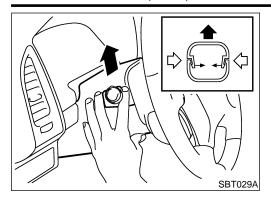
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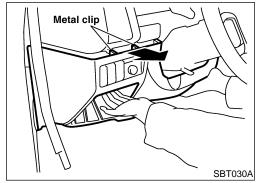
*: Not installed on some models

SBT039A



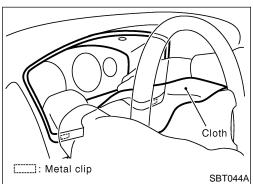
Steering column cover

After removing the screws, release the pawls by pressing on the upper cover where it meets (the bottom cover) from both sides.



Instrument lower panel on the driver side

Open the pocket after removing the screws. Hold the opening and the bottom and pull out horizontally.

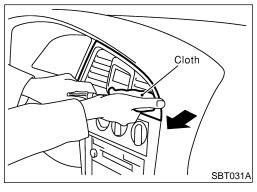


Cluster lid A

After removing the screws, hold the bottom and pull out.

CAUTION:

Cover the surroundings with a cloth to prevent damage.

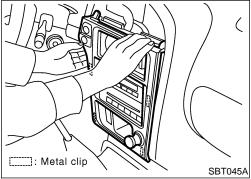


Center ventilator

Hook a cloth-covered flat-bladed screwdriver into the right-side groove section, and pull out.

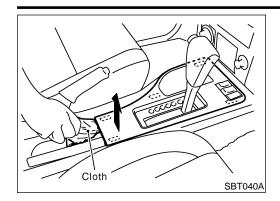
CAUTION:

To prevent the screwdriver from slipping and causing damage to the surface, pull out while applying pressure on the screwdriver towards the right.



Cluster lid C

After removing the screws, place hands on the metal clip section, and pull forward to remove the metal clips.



Console finisher

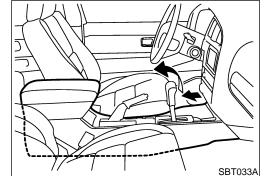
- 1) Open the lid of the cup holders, insert a cloth-covered flatbladed screwdriver into the gap between the console and the finisher, and remove the clip at the back.
- 2) Lift up the metal clip section, and pull forward to remove.





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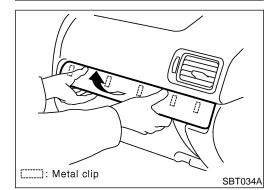
Console box

- Pull up the parking brake lever.
- Remove the screws, pull the console towards the back of the car until it is free of the instrument panel, lift up the front and remove.
- It will be easier to remove if the parking brake lever is pulled up for more than 10 notches.





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Instrument finisher

Remove the screws and pull up.











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Instrument lower panel on the passenger side

After removing the screws, hold both sides and pull out horizontally.











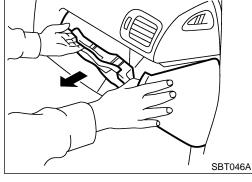
SC

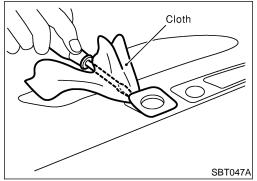


Insert a cloth-covered flat-bladed screwdriver, and remove by lifting up.



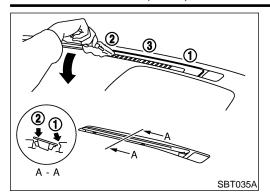


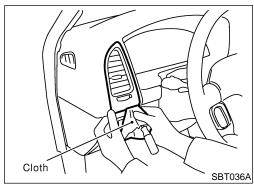


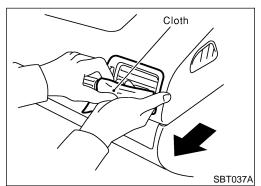


INSTRUMENT PANEL ASSEMBLY

Removal and Installation (Cont'd)







Defroster grille REMOVAL

Insert a cloth-covered flat-bladed screwdriver into the grilles of the outside, center and central grilles, respectively, lift up the front of the grilles and remove.

INSTALLATION

After inserting the front section, insert the rear section (pawls) to attach.

CAUTION:

Confirm that the pawls at the rear are securely attached.

Side ventilator-left

Insert a cloth-covered flat-bladed screwdriver into the lower section, and pull out forward.

Side ventilator-right

Insert a cloth-covered flat-bladed screwdriver into the corner of the lower section, and pull out forward. (Securely press the screwdriver against the ventilator.) Or, after removing the instrument lower panel, push the ventilator out from the back.

Side defroster grille

After removing the side ventilator, reach in with hands from the opening, push on the pawls from behind the grille, and remove by pushing out.

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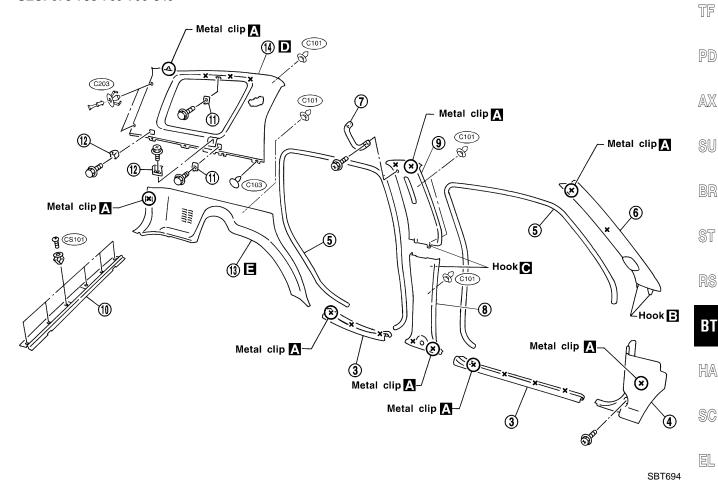
Removal and Installation

CAUTION:

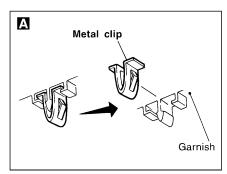
Wrap the tip of flat-bladed screwdriver with a cloth when removing metal clips from garnishes.

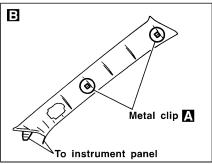
- 1. Remove front and rear seats. Refer to "FRONT SEAT" and "REAR SEAT" for details, BT-42, BT-45.
- 2. Remove front and rear seat belts. Refer to RS-4 and RS-5, "Front Seat Belt" and "Rear Seat Belt" for details.
- 3. Remove front and rear kicking plates.
- Remove dash side lower finishers.
- 5. Remove front and rear body side welts.
- 6. Remove front pillar garnishes.
- 7. Remove center assist grips.
- 8. Remove center pillar lower garnishes.
- 9. Remove center pillar upper garnishes.
- 10. Remove rear gate kicking plate.
- 11. Remove rear net hooks.
- 12. Remove tonneau cover assembly and rear parcel holder.
- 13. Remove rear side lower garnishes.
- 14. Remove rear side upper garnishes.

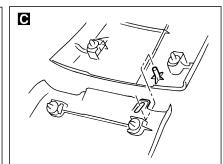
SEC. 678•738•769•799•849

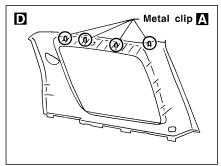


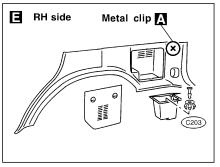
SIDE AND FLOOR TRIM











Removal and Installation

Front Door Trim

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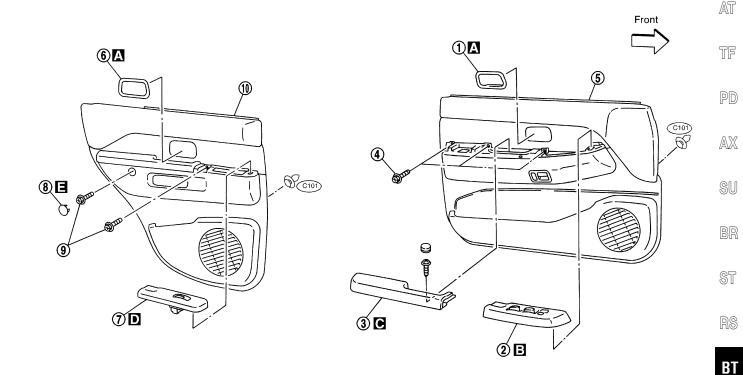
FE

- Remove inside handle escutcheon. A
- 2. Remove power window switch, then disconnect the connectors.
- 3. Remove door armrest.
- 4. Remove bolts securing door finisher.
- 5. Pull on door finisher to remove clips from door panel and remove door finisher, then disconnect glass hatch and fuel lid opener switch connector.

Rear Door Trim

- 6. Remove inside handle escutcheon.
- 7. Remove power window switch, then disconnect the connector.
- 8. Remove door armrest cap.
- 9. Remove bolts securing door finisher.
- 10. Pull on door finisher to remove clips from door panel and remove door finisher.

SEC. 251.809.828

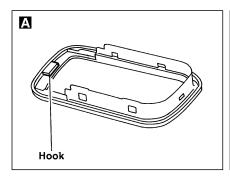


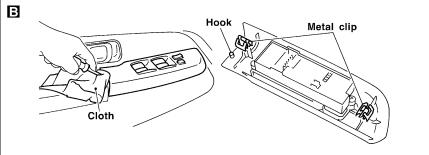
IDX

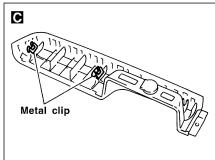
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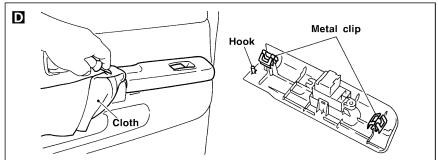
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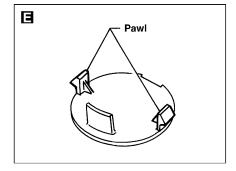
EL











Removal and Installation

- 1. Remove front and rear seats. Refer to "FRONT SEAT" and "REAR SEAT" for details, BT-42, BT-45.
- 2. Remove front and rear seat belts. Refer to RS-4 and RS-5, "Front Seat Belt" and "Rear Seat Belt" for details.
- 3. Remove body side trim. Refer to "SIDE AND FLOOR TRIM" for details, BT-29.
- 4. Remove roof console assembly.
- 5. Remove inside mirror assembly.
- 6. Remove sun visors.
- 7. Remove interior lamp assembly and luggage room lamp assembly.
- 8. Remove assist grips.
- 9. Remove clips securing headlining.
- 10. Remove rear roof garnish.
- 11. Remove headlining from vehicle through either back door.

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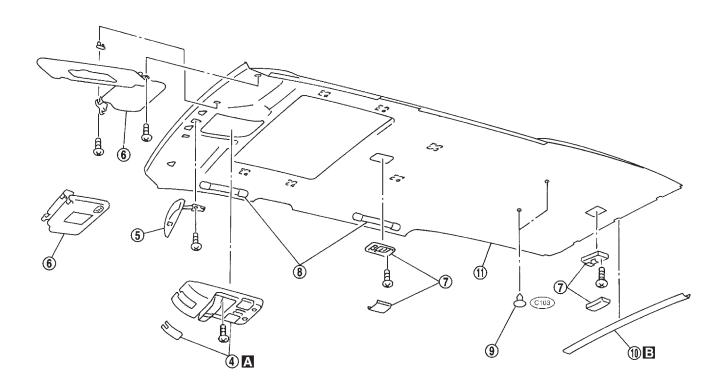
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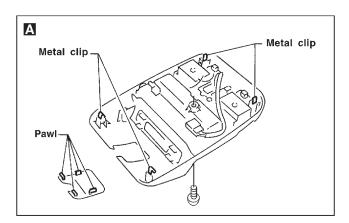
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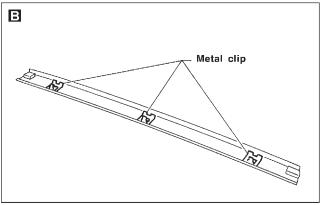
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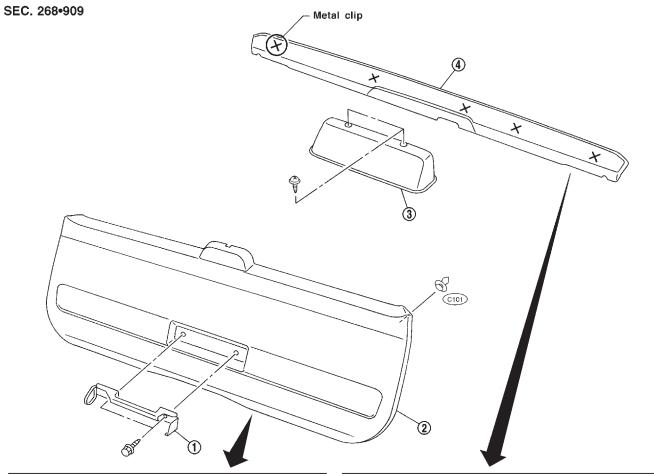


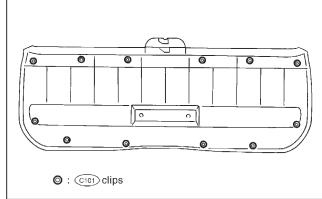


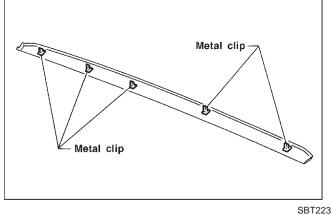


Removal and Installation

- 1. Remove back door grip.
- 2. Remove back door finisher assembly.
- 3. Remove high-mounted stop lamp.
- 4. Remove back door upper finisher assembly.







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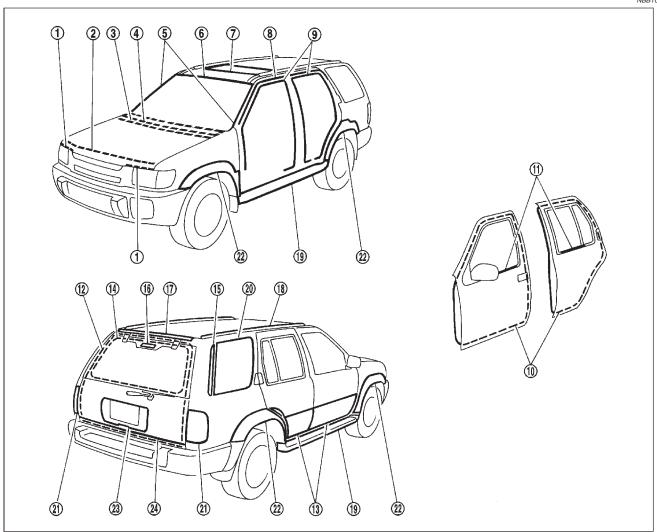
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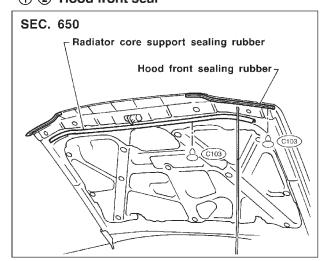
EL

Removal and Installation

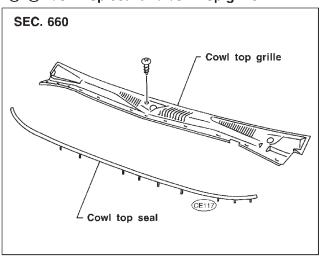




1 2 Hood front seal



$\ensuremath{\mathfrak{J}}$ $\ensuremath{\mathfrak{J}}$ Cowl top seal and cowl top grille



5 Windshield side molding

Mounted with screws.

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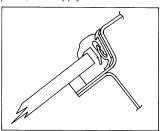
SC

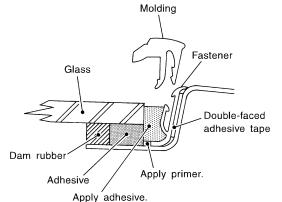
EL

6 Windshield upper molding

SEC. 720

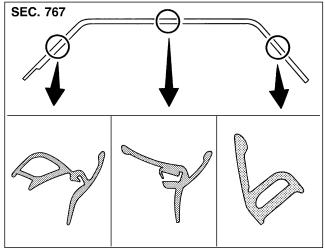
- 1. Cut off adhesive at glass end.
- 2. Remove old adhesive from panel surface.
- 3. Set molding fastener and apply primer to body panel, and apply adhesive to body.



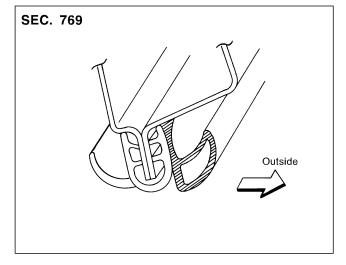


4. Install molding by aligning the molding mark located on center with vehicle center. Be sure to install tightly so that there is no gap around the corner.

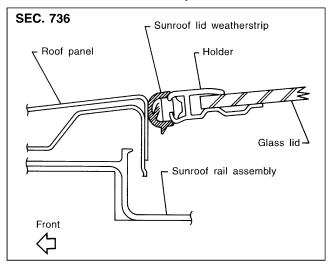
8 Drip weatherstrip



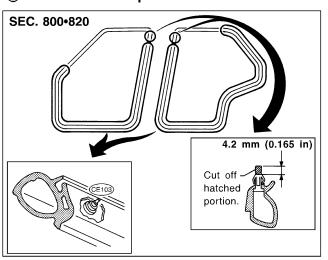
9 Body side welt



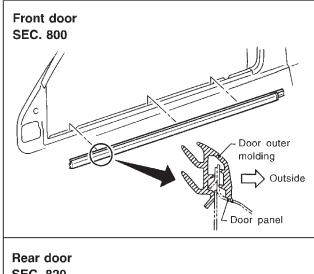
Sunroof lid weatherstrip

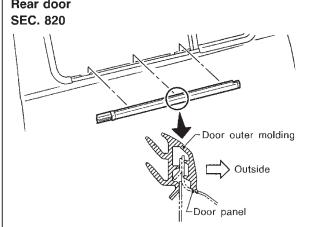


10 Door weatherstrip

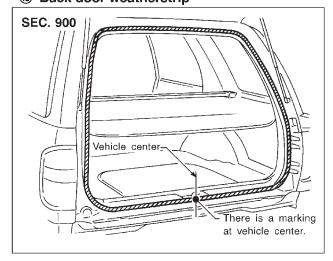


1 Door outside molding

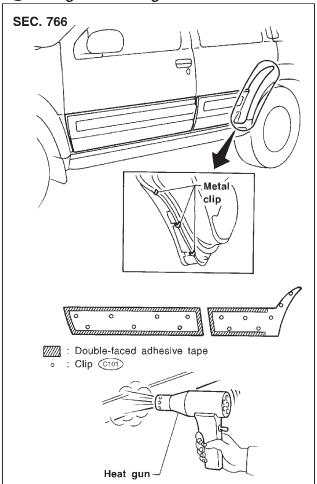




12 Back door weatherstrip

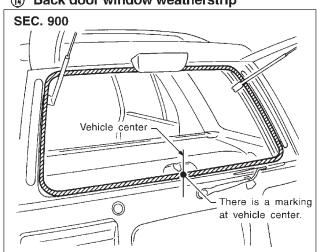


(13) Side guard molding



 With a vehicle coated with Hard Clear Coat, use double-faced 3M adhesive tape Product No. 4210 or equivalent, after priming with 3M primer Product No. N-200 or C-100 or equivalent.

Back door window weatherstrip



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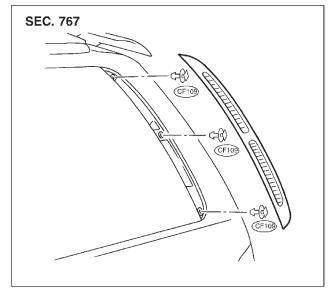
BT

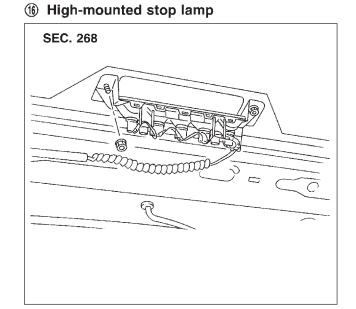
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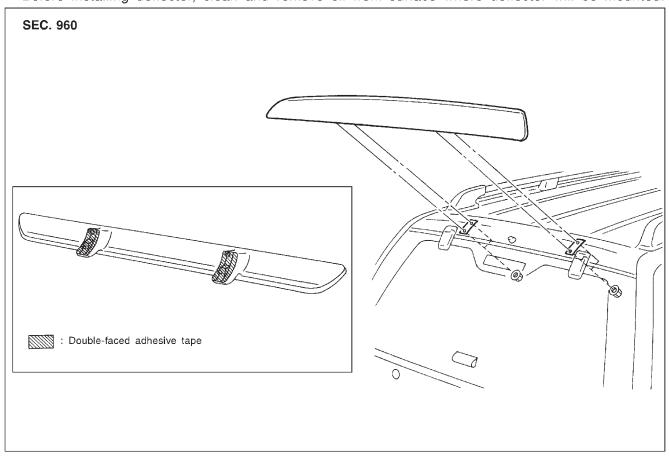
(15) Air outlet grille



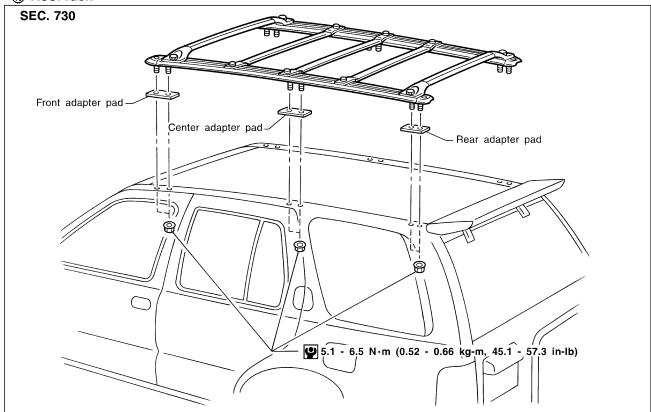


Back door deflector

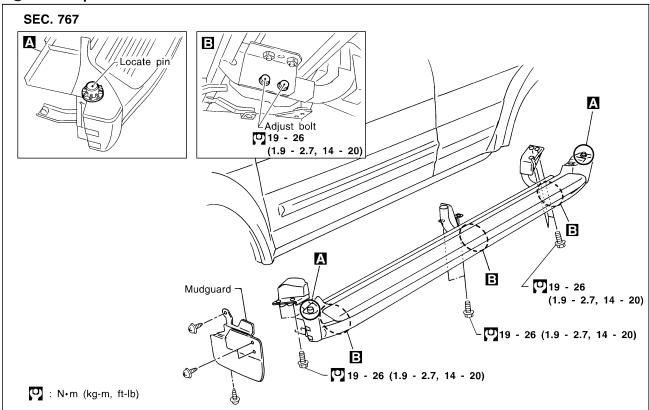
- When installing, make sure that there are not gaps or waves at ends of deflector.
- Before installing deflector, clean and remove oil from surface where deflector will be mounted.



® Roof rack



(19) Side step



SBT496-A

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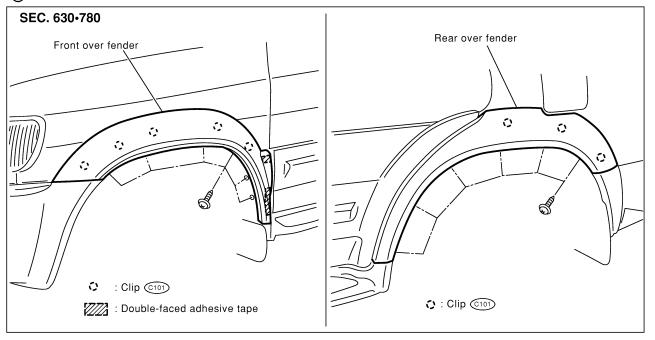
② Rear side window molding

Refer to the applicable sections on the preceding pages.

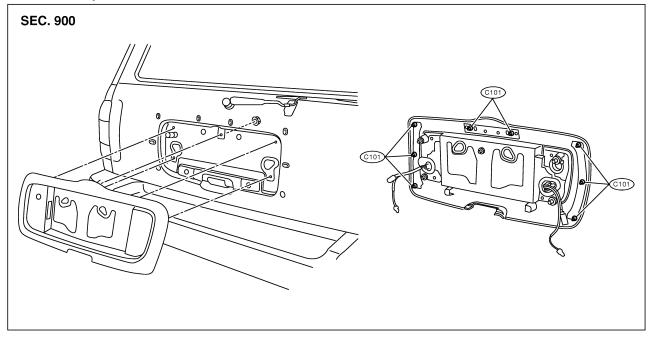
② Rear combination lamp

Rear combination lamps are installed with nuts.

22 Over fender



② License plate finisher



SBT028A

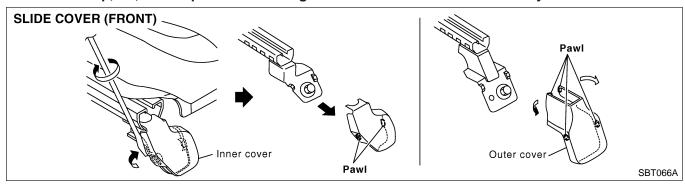
Removal and Installation

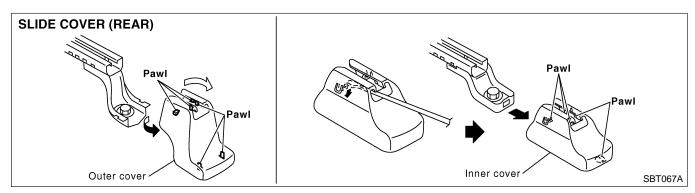
NBBT0014

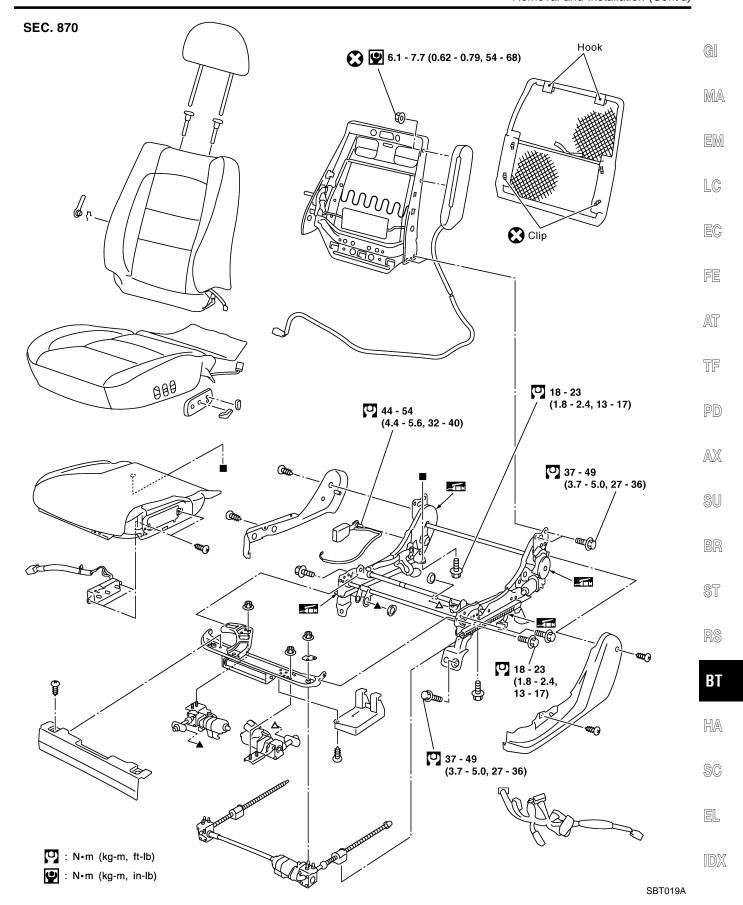
- When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage.
- ★ For Wiring Diagram, refer to EL-184, "POWER SEAT" for details.

CAUTION:

- Before removing the front seat, turn the ignition switch off, disconnect both battery cables and wait at least 3 minutes.
- When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag to deploy.
- Do not drop, tilt, or bump the side air bag module installed in the seat. Always handle it with care.



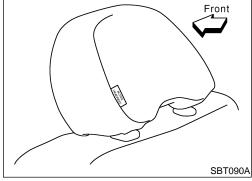




HEATED SEAT

=NBBT0014S03

- When handling seat, be extremely careful not to scratch heating unit.
- To replace heating unit, seat trim and pad should be separated.
- Do not use any organic solvent, such as thinner, benzene, alcohol, gasoline, etc. to clean trims.
- ★ For Wiring Diagram, refer to EL-186, "HEATED SEAT" for details.



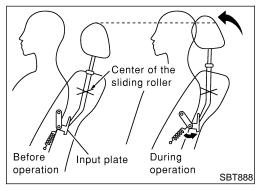


Active Head Restraint

The active head restraint system is designed so that the headrest instantaneously moves towards the front upper direction by utilizing the force at the seatback during a rear-end collision.

As a result, the occupant's head is protected from being overextended, reducing the chance for neck injury as much as

Seat with active head restraint have the labels shown in figures at left.



OPERATION OUTLINE

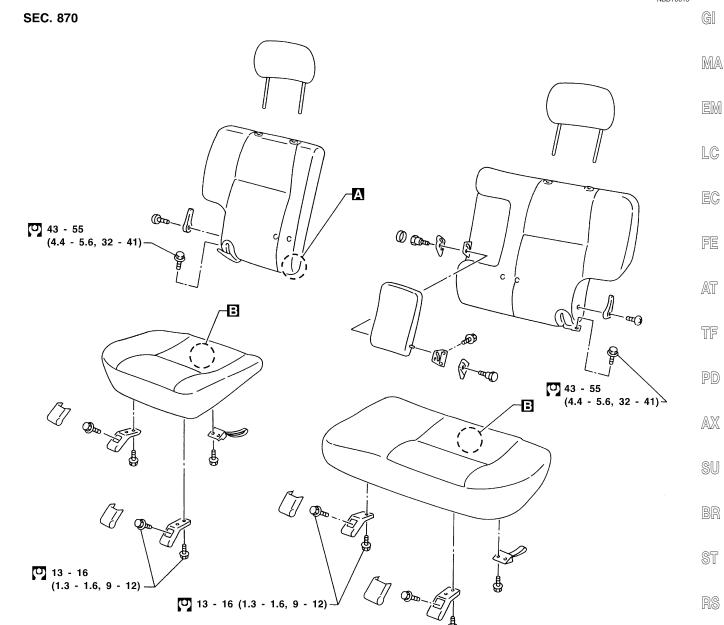
NBBT0028S01

When the seatback receives a sharp backward force during a rearend collision, the input plate moves with the link rotating center as a pivot. The headrest will then move towards the front upper direction with the center of the sliding roller as a pivot.

As the backward force on the seat back is eliminated, spring tension returns the headrest to its original position.

Removal and Installation

NBBT0015

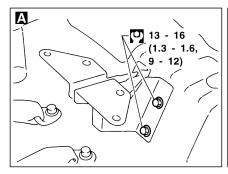


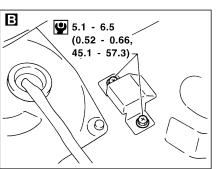
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: N•m (kg-m, in-lb)

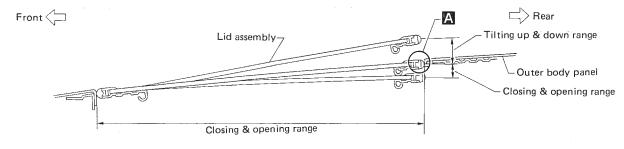
: N•m (kg-m, ft-lb)

SBT190-A

Adjustment

NBBT0016

- Install motor & limit SW assembly and sunroof rail assembly in the following sequence:
- 1. Arrange equal lengths of link and wire assemblies on both sides of sunroof opening.
- 2. Connect sunroof connector to sunroof switch and positive (+) power supply.
- 3. Set lid assembly to fully closed position A by operating OPEN switch and TILT switch.
- 4. Fit outer side of lid assembly to the surface of roof on body outer panel.
- Remove motor, and keep OPEN switch pressed until motor pinion gear reaches the end of its rotating range.
- 6. Install motor.
- 7. Check that motor drive gear fits properly in wires.
- 8. Press TILT-UP switch to check lid assembly for normal tilting.
- 9. Check sunroof lid assembly for normal operations (tilt-up, tilt-down, open, and close).



SBF920F

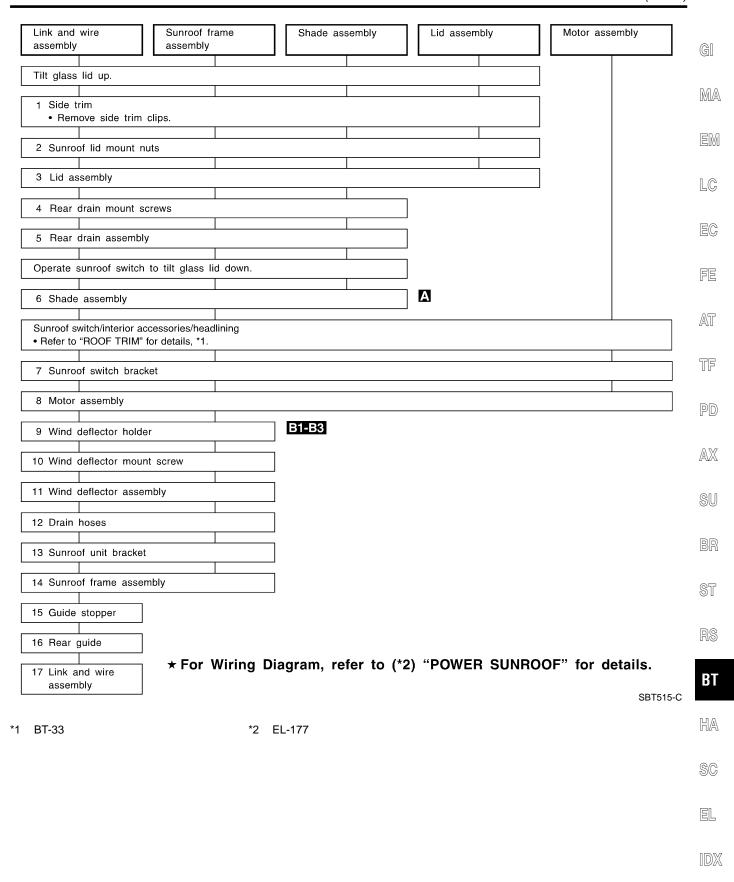
Removal and Installation

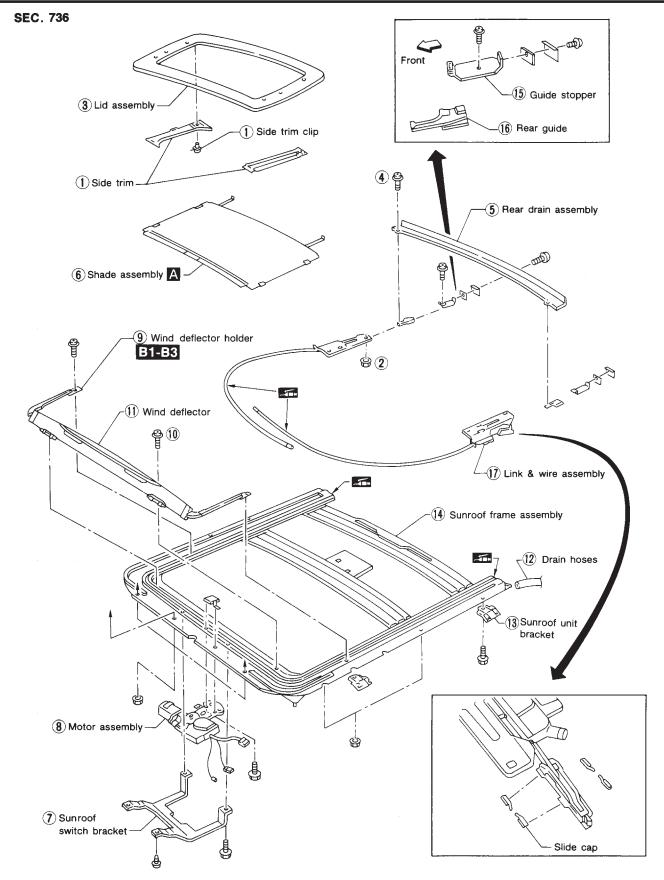
NBBT00

- After any adjustment, check sunroof operation and lid alignment.
- Handle finisher plate and glass lid with care so not to cause damage.
- It is desirable for easy installation to mark each point before removal.

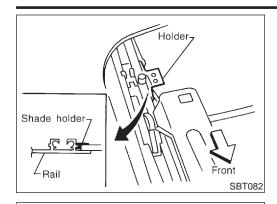
CAUTION:

- Always work with a helper.
- Before removal, fully close the glass lid assembly, then after removal, do not move motor assembly.





MBF462BG



Wind
 deflector

Holder

A Using flat-bladed screwdriver, pry shade assembly holder off rail. Then pull shade assembly forward to remove it from rail.



MA

LC



MBF491BA

B1 Disengage pawls from rail, then remove wind deflector holder.



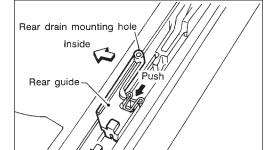
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B2 Using flat-bladed screwdriver, pry stopper spring off rail groove. Then slide rear guide backward to remove it from rail.



£2%



20



ST

Remove wire and link assembly from rail while pushing link back with flat-bladed screwdriver.







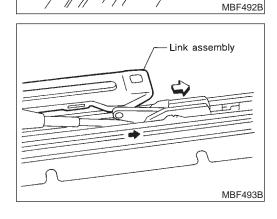












Trouble Diagnoses DIAGNOSTIC TABLE

=NBBT0018

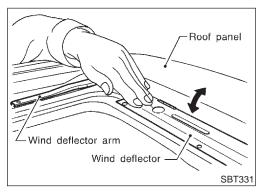
NBBT0018S01

NOTE:

For diagnosing electric problem, refer to EL-177 "POWER SUN-ROOF" for details.

		Check items (Components)				
		Wind deflector	Adjustment	Drain hoses	Weatherstrip	Link and wire assembly
	Reference page	BT-50	BT-51	BT-52	BT-52	BT-53
Symptom	Excessive wind noise	1	2		3	
	Water leaks		1	2	3	
	Sunroof rattles		1	4	2	3
	Excessive operation noise		1		2	3

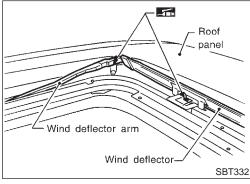
The numbers in this table mean checking order.



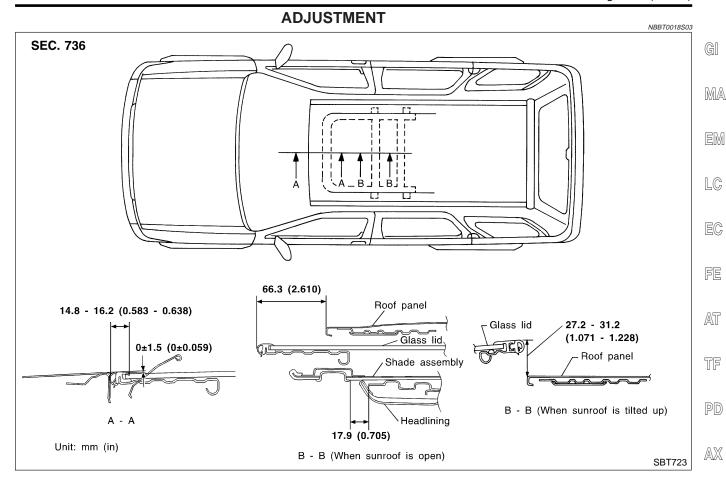
WIND DEFLECTOR

NBBT0018S02

- 1. Open lid.
- 2. Check visually for proper installation.
- 3. Check to ensure a proper amount of petroleum jelly has been applied to wind deflector connection points; apply if necessary.



4. Check that wind deflector is properly retracted by hand. If it is not, remove and visually check condition. (Refer to removal procedures, BT-46.) If wind deflector is damaged, replace with new one. If wind deflector is not damaged, re-install properly.



If any gap or height difference between glass lid and roof is found, check glass lid fit and adjust as follows:

Gap Adjustment

- 1. Open shade assembly.
- Tilt glass lid up then remove side trim.
- Loosen glass lid securing nuts (3 each on left and right sides), then tilt glass lid down.
- Adjust glass lid from outside of vehicle so it resembles "A-A" as shown in the figure above.
- Tilt glass lid up and down until it is adjusted to "B-B" as shown 5. in the figure above.
- After adjusting glass lid, tilt glass lid up and tighten nuts.
- Tilt glass lid up and down several times to check that it moves smoothly.

Height Difference Adjustment

- Tilt glass lid up and down.
- Check height difference between roof panel and glass lid to see if it is as "A-A" as shown in the figure above.
- If necessary, adjust it by using one of following procedures.
- Adjust by adding or removing adjustment shim(s) between glass lid and link assembly.
- If glass lid protrudes above roof panel, add shim(s) or plain washer(s) at sunroof mounting bracket or stud bolt locations to adjust sunroof installation as required.

NBBT0018S0301

NBBT0018S0302













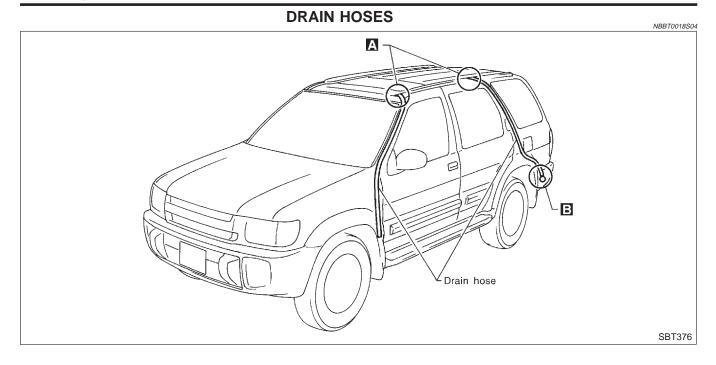


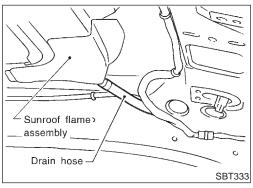


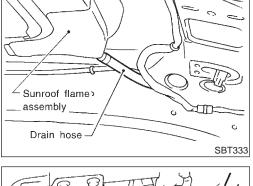


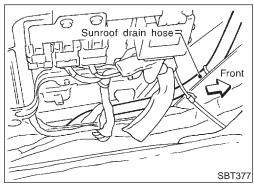












- Remove headlining to access drain hose connections. (Refer to "Removal and Installation" in "ROOF TRIM", BT-33, for detail.)
- 2. Check visually for proper connections, deterioration. (The figure shows only the front side.)

- If leakage occurs around luggage room, remove luggage room side trim and check connecting area. Check for proper connection, damage or tear.
- Remove drain hoses and check visually for any damage, cracks, or deterioration.
- Pour water into drain hoses and find damaged portion.
- If any damaged portion is found at each step, replace the damaged part.

WEATHERSTRIP

- In the case of leakage around glass lid, close glass lid and pour water over glass lid to find damaged or gap portion.
- 1. Remove glass lid assembly. (Refer to removal procedures, BT-46, for details.)
- 2. Visually check weatherstrip for proper installation. If a gap exists between glass lid and weatherstrip, check for sufficient amount of butyl seal. If required, remove weatherstrip and apply butyl seal.

Refer to "EXTERIOR" (BT-36), for details.

- 3. Check weatherstrip visually for any damage, deterioration, or flattening.
- If any damage is found, replace weatherstrip.

CAUTION

Do not remove weatherstrip except when replacing, or filling up butyl seal.

MA

GI

LINK AND WIRE ASSEMBLY

NOTE:

NBBT0018S06

Before replacing a suspect part, carefully ensure it is the source of noise being experienced.

п

 Check link to determine if coating film has peeled off to such an extent that substrate is visible. Check also to determine if link is the source of noise. If it is, replace it.

EG

2. Visually check to determine if a sufficient amount of petroleum jelly has been applied to wire or rail groove. If not, add petroleum jelly as required.

FE

3. Check wire for any damage or deterioration. If any damage is found, remove rear guide (refer to removal procedures, BT-46 for details), then replace wire.

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 $\mathbb{A}\mathbb{X}$

SU

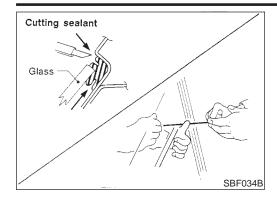
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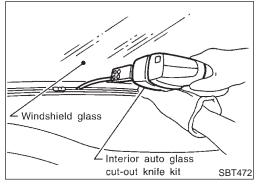
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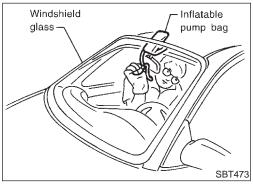
29

HA

SC







Removal and Installation REMOVAL

NBBT0019

After removing moldings, remove glass using piano wire or power cutting tool and an inflatable pump bag.

WARNING:

When cutting the glass from the vehicle, always wear safety glasses and heavy gloves to help prevent glass splinters from entering your eyes or cutting your hands.

CAUTION

- Be careful not to scratch the glass when removing.
- Do not set or stand the glass on its edge. Small chips may develop into cracks.

INSTALLATION

BBT0019S0

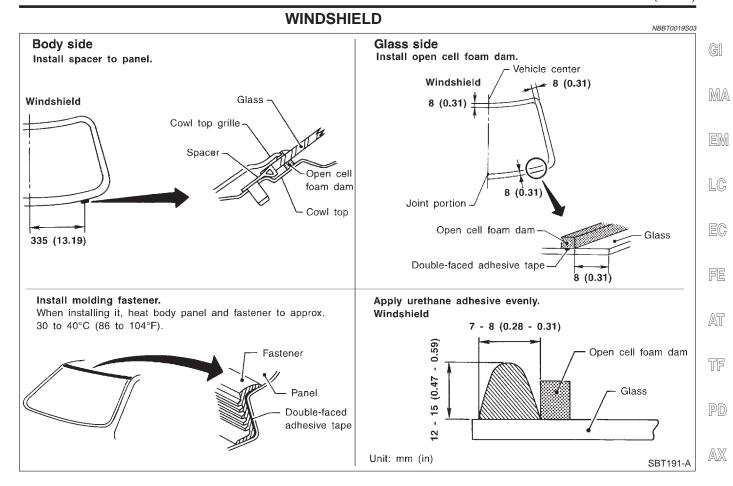
- Use a genuine Nissan Urethane Adhesive Kit or equivalent and follow the instructions furnished with it.
- While the urethane adhesive is curing, open a door window. This will prevent the glass from being forced out by passenger compartment air pressure when a door is closed.
- The molding must be installed securely so that it is in position and leaves no gap.
- Inform the customer that the vehicle should remain stationary until the urethane adhesive has completely cured (preferably 24 hours). Curing time varies with temperature and humidity.

WARNING:

- Keep heat and open flames away as primers and adhesive are flammable.
- The materials contained in the kit are harmful if swallowed, and may irritate skin and eyes. Avoid contact with the skin and eyes.
- Use in an open, well ventilated location. Avoid breathing the vapors. They can be harmful if inhaled. If affected by vapor inhalation, immediately move to an area with fresh air.
- Driving the vehicle before the urethane adhesive has completely cured may affect the performance of the windshield in case of an accident.

CAUTION:

- Do not use an adhesive which is past its usable term.
 Shelf life of this product is limited to six months after the date of manufacture. Carefully adhere to the expiration or manufacture date printed on the box.
- Keep primers and adhesive in a cool, dry place. Ideally, they should be stored in a refrigerator.
- Do not leave primers or adhesive cartridge unattended with their caps open or off.
- The vehicle should not be driven for at least 24 hours or until the urethane adhesive has completely cured. Curing time varies depending on temperature and humidities. The curing time will increase under higher temperatures and lower humidities.



Repairing Water Leaks for Windshield

NBBT0019S0301

Leaks can be repaired without removing and reinstalling glass. If water is leaking between the urethane adhesive material and body or glass, determine the extent of leakage. This can be done by applying water to the windshield area while pushing glass outward.

To stop the leak, apply primer (if necessary) and then urethane adhesive to the leak point.

RS

ST



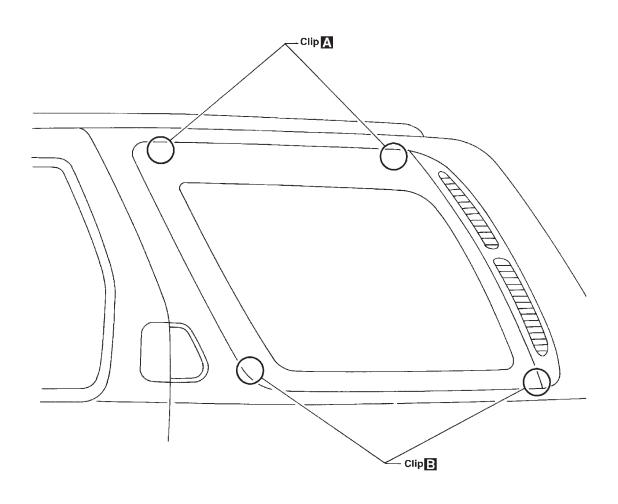


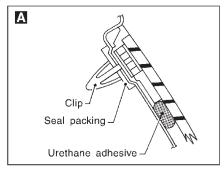


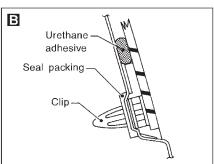
REAR SIDE WINDOW

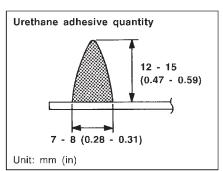
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SEC. 830









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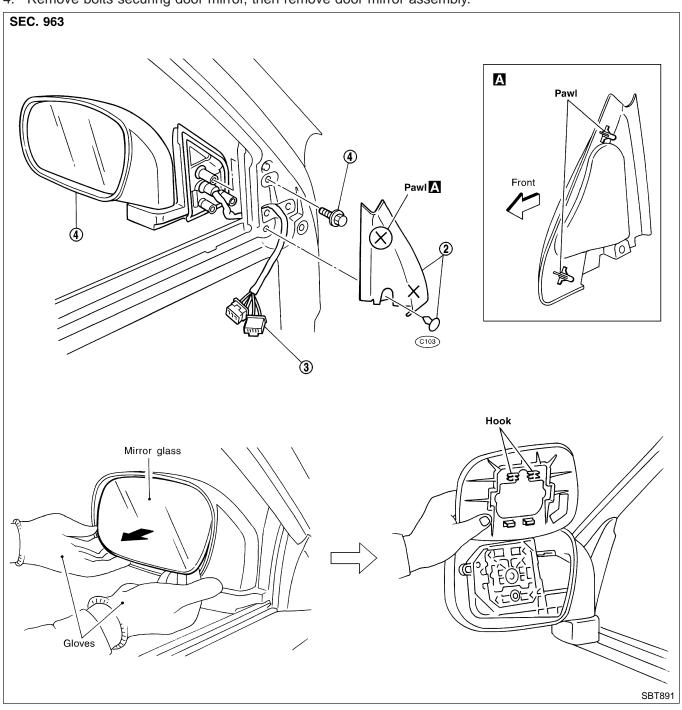
Removal and Installation

CAUTION:

Be careful not to scratch door rearview mirror body.

★ For Wiring Diagram, refer to EL-180, "DOOR MIRROR" for details.

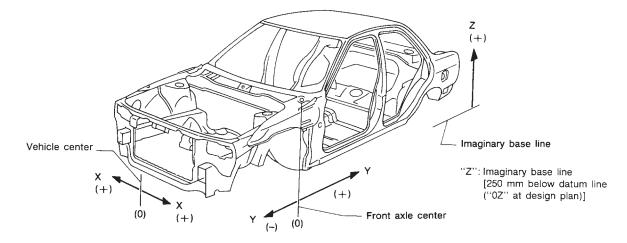
- 1. Remove door trim. Refer to "DOOR TRIM" for details, BT-31.
- 2. Remove clip securing inner cover from front corner of door.
- 3. Disconnect door mirror harness connector.
- 4. Remove bolts securing door mirror, then remove door mirror assembly.



Alignment

NBBT0021

- All dimensions indicated in figures are actual ones.
- When using a tracking gauge, adjust both pointers to equal length. Then check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (★) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- The coordinates of the measurement points are the distances measured from the standard line of "X", "Y" and "Z".



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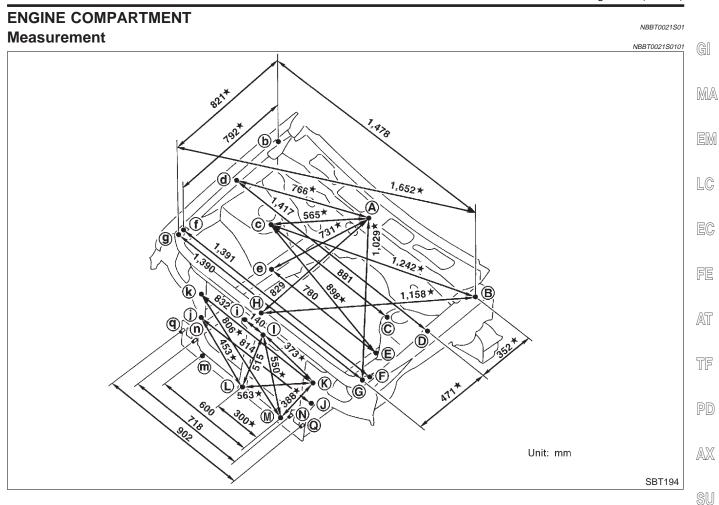
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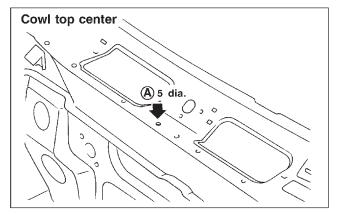
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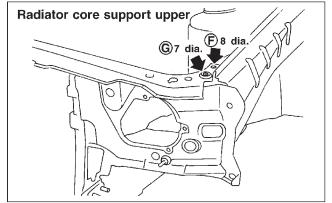
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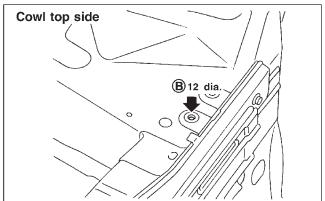


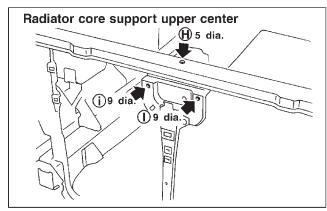
Measurement Points

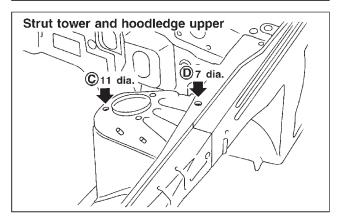
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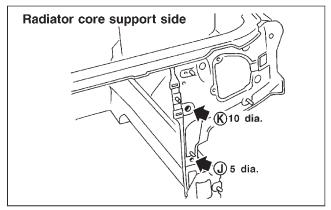


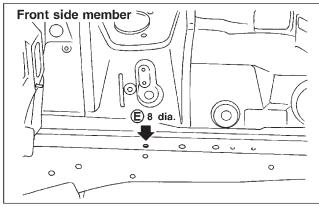


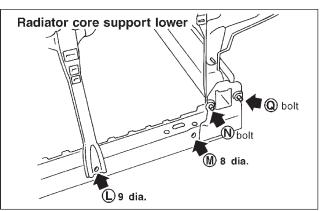












UNDERBODY NBBT0021S02 Measurement NBBT0021S0201 GI MA ШШ Above Below Unit: 1 **(C)** Θ 554 **@** (2) (D) 860 354 LC **@**6 **(a) (a)** @ @ @ © 432 384 ⊜ 860 EG 426 190 (E) (S) FE This figure is under view. AT 1,027 1,647 1,810* 1,987* 301 1,509* Θ 1,338 1,677 322 1,304 \bigcirc TF 954 1.038× **795*** 827× PD $\mathbb{A}\mathbb{X}$ 1,130 **@ (3**) **6** SU LH side ¥966 BR ¥22 ST √ 1,015★ (II) 978 ⊕⊕ RS <u>(ii)</u>(ii) 1,048 **(** All dimensions indicated in these figures are actual ones. 976* **©** BT 157 **@ ©** \$658 1,155* 1,240* HA (O 792 280 0 **©**@ SC 806 298 (a) (b) (c) 532 191 EL **(4)** <u>a</u>

Measurement Points

NBBT0021S0202

